CLAIMS

Having thus described the aforementioned invention, we claim:

1. An apparatus for training an animal in which an audible and a variable level electrical stimulation is applied to the animal, said apparatus comprising:

a transmitting unit sending a coded signal having an identification code, a stimulation type code, and a stimulation level code, said stimulation type code including a beep code and a shock code;

a receiver responsive to said coded signal from said transmitting unit;

a processor for decoding said coded signal;

a speaker producing a beep in response to said beep code, said speaker controlled by said processor;

a switch array controlled by said processor in response to said shock code, said processor controlling a plurality of pulse streams applied to said switch, a number of said plurality of pulse streams related to a value of said stimulation level code;

a transformer electrically connected to said switch array, said transformer producing an output pulse having a pulse voltage related to number of said plurality of pulse streams applied to said switch array; and

at least one electrode electrically connected to said transformer and located proximal the animal;

whereby said animal is stimulated by said electrode when said electrode is energized by said transformer.

2. The apparatus of Claim 1 wherein each of said plurality of pulse streams has a fixed pulse width, a fixed pulse frequency, and a fixed amplitude.

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- 3. The apparatus of Claim 1 wherein said processor has a plurality of output connections that connect to a plurality of switches forming said switch array, each of said plurality of switches forcing a specified current through said transformer.
- 5 4. The apparatus of Claim 1 wherein said processor monitors said receiver for said coded signal, verifies said identification code, determines whether a beep is to be generated, determines whether a shock is to be generated, and generates said plurality of pulse streams.
- 5. The apparatus of Claim 1 wherein said transmitting unit includes a beep switch, a shock switch, and a stimulation level switch.
 - 6. An apparatus for training an animal in which a variable level electrical stimulation is applied to the animal, said apparatus comprising:

a processor that monitors for a coded signal, verifies an identification code in said coded signal, determines whether an electrical stimulation is to be generated, and generates a plurality of pulse streams;

a switch array controlled by said processor, said processor controlling a number of said plurality of pulse streams applied to said switch array;

a transformer electrically connected to said switch array, said transformer producing an output pulse having a pulse voltage related to number of said plurality of pulse streams applied to said switch array; and

at least one electrode electrically connected to said transformer and located proximal the animal;

whereby said animal is stimulated by said electrode when said electrode is energized by said transformer.

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- 7. The apparatus of Claim 6 wherein said processor determines whether a beep is to be generated and further including a speaker producing a beep, said speaker controlled by said processor.
- 8. An apparatus for training an animal in which a variable level electrical stimulation is applied to the animal, said apparatus comprising:

a processor that monitors said receiver for a coded signal, verifies an identification code in said coded signal, determines whether an electrical stimulation is to be generated, and generates a plurality of pulse streams; and

a means for producing an electrical stimulation based on an output of said processor.

- 9. The apparatus of Claim 8 wherein said means for producing said electrical stimulation includes varying a current flowing through a transformer.
- 10. The apparatus of Claim 8 wherein said processor determines whether a beep is to be generated and further including a speaker producing a beep and further including a means for producing a beep.
- 11. An apparatus for training an animal in which a variable level electrical stimulation is applied to the animal, said apparatus comprising:

a means for receiving a coded signal;

- a means for decoding said coded signal; and
- a means for producing an electrical stimulation based on said coded signal.
 - 12. The apparatus of Claim 11 wherein said means for producing said electrical stimulation includes varying a current flowing through a transformer.

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- 13. The apparatus of Claim 11 further including a means for producing a beep.
- 14. In an apparatus for training an animal in which a variable level electrical stimulation is applied to the animal, a memory medium comprising software programmed to provide for controlling the stimulation applied to the animal by a process comprising:
- a) receiving an electronic signal representing a request message to stimulate the animal, said request message including an identification code, and a stimulation level code;
- b) determining whether an electrical stimulation is to be generated to stimulate the animal;
 - c) generating at least one pulse stream; and
 - d) outputting said least one pulse stream to produce a signal having a current corresponding to said stimulation level code.
- 15. The method of Claim 14 further including verifying said coded signal from said identification code.
 - 16. The apparatus of Claim 14 further including:
 - e) determining whether a beep is to be generated to stimulate the animal; and
 - f) generating a control signal for operating a sound generating device;
 - 17. A method for training an animal in which an audible and a variable level electrical stimulation is applied to the animal, said method comprising:

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- a) monitoring for a coded signal representing a request message to stimulate the animal, said coded signal including an identification code and a stimulation level code;
 - b) determining whether an electrical stimulation is requested;
- 5 c) producing said electrical stimulation if requested, said electrical stimulation based on a current level corresponding to said stimulation level code.
 - 18. The method of Claim 17 further including verifying said coded signal from said identification code.
 - 19. The method of Claim 17 further including the steps of:
 - d) determining whether an audible stimulation is requested; and
 - e) producing said audible stimulation if requested.
 - 20. The method of Claim 17 wherein said step of producing said electrical stimulation includes:
- c1) determining said current level corresponding to said stimulation level code;
 - c2) generating at least one input pulse stream having a fixed pulse width, a fixed frequency, and a fixed pulse voltage;
 - c3) applying at least one input pulse stream to a switch array to produce said current level in a pulse transformer; and
- c4) producing a stimulation pulse stream from said at least one input pulse stream.
 - 21. A method for training an animal in which a variable level electrical stimulation is applied to the animal, said method comprising:

- a) monitoring for a coded signal representing a request message to stimulate the animal, said coded signal including an identification code and a stimulation level code:
 - b) determining whether an electrical stimulation is requested; and
 - c) if said electrical stimulation is requested:

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- c1) determining a number of pulse streams to be applied to a switch array to produce a current corresponding to said stimulation level code;
- c2) generating said number of pulse streams having a fixed pulse width, a fixed frequency, and a fixed pulse voltage;
 - c3) generating a current from said number of pulse streams;
 - c4) generating an output pulse stream from said current; and
 - c5) making said output pulse stream available to the animal.
- 22. The method of Claim 21 further including the steps of:
- d) determining whether an audible stimulation is requested; and
- e) producing said audible stimulation if requested; and
- 23. The method of Claim 21 further including a step of verifying said coded signal from said identification code.
- 24. The method of Claim 21 wherein said coded signal includes a stimulation type code.
- 25. A method for training an animal in which a variable level electrical stimulation is applied to the animal, said method comprising:

- a) monitoring a receiver for a coded signal representing a request message to stimulate the animal, said coded signal including an identification code and a stimulation level code; and
 - b) if an electrical stimulation is requested by said coded signal:
- 5 b1) determining a current corresponding to said stimulation level code;
 - b2) generating said current from at least one input pulse stream having a fixed pulse width, a fixed frequency, and a fixed pulse voltage;
 - b3) applying said current to a transformer to generate an output pulse stream from said input pulse stream; and
 - b4) making said output pulse stream available to the animal.
 - 26. The method of Claim 25 further including the step of:
 - c) controlling an audible device if an audible stimulation is requested by said coded signal.
- 15 27. The method of Claim 25 wherein said coded signal includes a stimulation type code.
 - 28. The method of Claim 25 further including a step of verifying said coded signal from said identification code.